

The background of the cover is a complex, abstract composition. It features a stylized, high-contrast figure in white and black, possibly representing a person in a dynamic pose. The figure is set against a light gray background with various geometric and organic shapes. There are several starburst or sunburst patterns in the upper right corner. The overall style is modern and graphic.

# **IRMA WorkStation for Windows**

**Product Update**



**029068**

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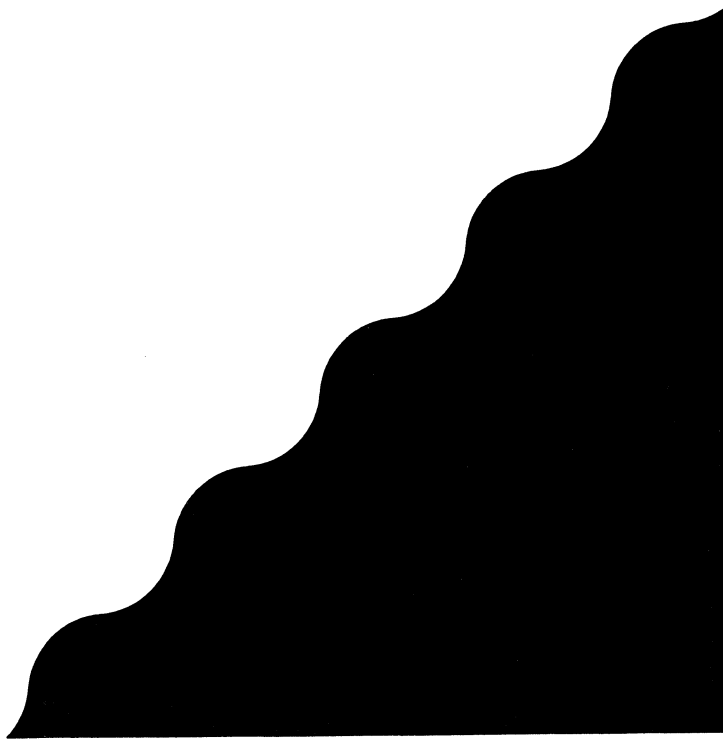
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## **About This Product Update**

- **How to use this update**
- **Who should read this update?**
- **Documentation conventions**
- **Common abbreviations**





## ► How to use this update

This update is a supplement to the *IRMA WorkStation for Windows User's Guide* (part number 020051, 12/92), which is referred to herein as the user's guide. The update provides information about new features and changes to IRMA™ WorkStation for Windows (referred to as IRMA WorkStation).

This update focuses mainly on the additional connectivity options now provided with IRMA WorkStation. You may need to read only certain chapters based on your requirements. The following table can help you find the information you need.

If you want to read about...	Turn to...
Changes to IRMA WorkStation	Chapter 1, "What's New with This Version?"
Select™ Comm Server connectivity	Chapter 2, "Connecting to Select Comm Server"
Eicon SNA LAN gateway connectivity	Chapter 3, "Connecting to the Eicon SNA LAN Gateway"
Digital SNA gateway connectivity	Chapter 4, "Connecting to the Digital SNA Gateway"
SNA Server for Windows NT™ connectivity	Chapter 5, "Connecting to an SNA Server for Windows NT"
ATLANTIS SNA gateway connectivity	Chapter 6, "Connecting to the ATLANTIS SNA Gateway"

## ► Who should read this update?

This update is written for system administrators and users of IRMA WorkStation.

## ► Documentation conventions


The following documentation conventions are used in this update:


**bold** In command lines, bold represents information that you should enter exactly as shown.

*italics* Italics represent variable information. Do not enter the words themselves in the command; enter the information they represent.

key A key name, for example, PgUp, refers to a specific key on the keyboard.

monospace text This font identifies actual programming code.

 **NOTE** Important information follows this symbol.

 **CAUTION** This symbol means that a failure to follow the recommended procedure could result in loss of data or damage to equipment or related products.

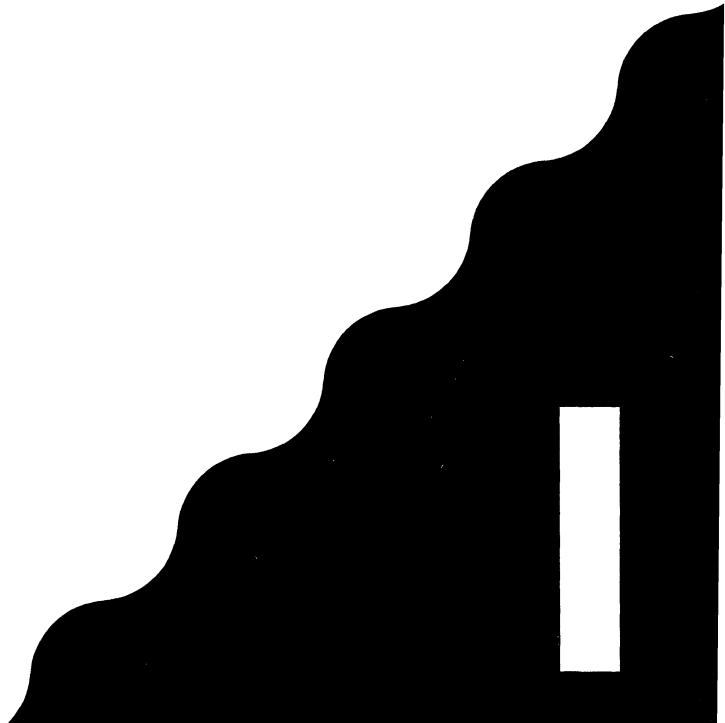
## ► Common abbreviations

The following abbreviations are used in this update:

API	Application programming interface
APPC	Advanced Program-to-Program Communications
CSV	Common Service Verb
CECP	Country Extended Code Page
DFT	Distributed function terminal
DLC	Data link control
HLLAPI	High-level Language Application Programming Interface
LAN	Local area network
LU	Logical unit
SDLC	Synchronous Data Link Control
SNA	Systems Network Architecture
TP	Transaction Program

# ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼ What's New with This Version?

- New features
- Changes in existing features
- Corrections to existing documentation
- Installation checklist





## ► New features

IRMA WorkStation offers the following new features:

- You can now set up IRMA WorkStation to connect to Select Comm Server as a client. This Select Comm Server connectivity includes the Customizer feature, which lets you customize your configuration, and the Browser feature, which lets you monitor and troubleshoot your IRMA WorkStation client.
- You can also set up IRMA WorkStation to connect to an Eicon SNA LAN gateway as a client.
- You can set up IRMA WorkStation to connect to a Digital SNA gateway.
- You can set up IRMA WorkStation to connect to an SNA Server for Windows NT as a client. This SNA Server for NT connectivity includes the Customizer feature, which lets you customize your configuration.
- You can set up IRMA WorkStation to connect to an ATLANTIS SNA gateway.

Each of these connectivity options is described in detail in the remaining chapters of this book.

## ► Changes in existing features

This section describes changes to existing features of IRMA WorkStation.

### File Transfer

The File Transfer program now includes a QuickBar. With the QuickBar, you can easily switch between host environments to change required settings for your file transfers.

The File Transfer program does not support IRMALINK<sup>®</sup> file transfers when you connect to Select Comm Server or SNA Server for Windows NT.

### Status line information—Select Comm Server client

The Status Line now displays the last transaction time indicator (LTTI) when you connect to Select Comm Server.

The LTTI measures the time between the end of an inquiry and the display of the first character of the response at the client PC. This information occupies the same location on the status line as Communication Reminder messages, which override LTTI.

Information is displayed as *mm:nn.p*, where *mm* represents minutes, *nn* represents seconds, and *p* represents tenths of seconds. The LTTI appears in columns 18 to 24.

## TN3270

For TN3270, the following stacks are supported: PC/NFS™; FTP®; Novell LAN WorkPlace®; Wollongong® Pathway Access; Walker Richer & Quinn; LANMAN/3Com®; Winsock 1.1 compatible stacks; and DEC® PATHWORKS™ 4.1 or newer.

Basic NVT Telnet emulation has also been added.

The Attn key is now supported in the TN3270 environment. When you press this key, a Telnet Break sequence is sent to the 3270 host or gateway you're using. Note that not all 3270 hosts and gateways support this key.

When you are configuring TN3270 parameters in the TN3270 Connection dialog box, note that the following options have been added:

- Op (Zero p) Specifies special processing during initialization. Some Winsock implementations require that you use this option if your system locks up when you first activate a session. (The TN3270 icon will appear at the bottom of the screen.)
- sn Specifies a terminal type. The default terminal is a type of 327n. For example, to specify a 3278, enter the -s8 option here.
- cr Specifies CR only to be sent to the host for NVT operation. If your gateway requires only CR, use this option. The default is CRLF.
- mrnn Gives less priority to incoming data, where *nn* is a number between 1 and 20. This option is useful if you are receiving significant amounts of data from the host. It allows you to slow down processing of incoming data to allow more time for processing other Windows™ applications. For example, -mr1 will process one receive per session for each pass and allow more time for other applications, trading off faster processing of incoming data.

## 3270 Printer changes

When you click Fonts in the Print Setup: Layout dialog box, the Windows 3.1 common font selection dialog box is now displayed. (In previous versions, the IRMA WorkStation fonts dialog box was displayed.)

If you want to choose from a wider range of fonts, including proportional fonts, check the Enable Proportional Fonts item on the File pull-down menu.

Two fields, Position Characters Using and Position Lines Using, which formerly appeared in the Fonts dialog box, have been moved to the Extended Options dialog box.

You can get more information on these and any other fields by clicking Help.

In addition to the Printer status codes listed on page 5-8 of the user's guide, the following status codes may be displayed:

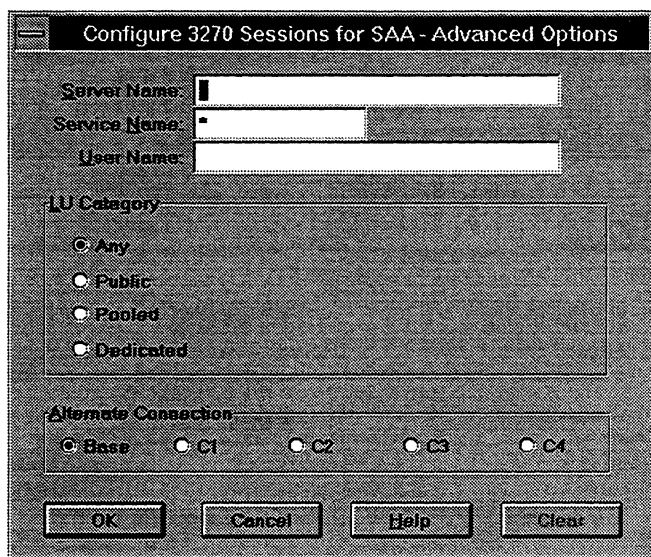
Code	Meaning
0007	An error code was returned from the Windows printing subsystem. This usually means there is not enough disk space to create a spool file.
0009	The PASSTHROUGH option is not supported by the printer driver.

## Hot backup for NetWare for SAA

You can now configure hot backup for your NetWare for SAA™ server connection by specifying up to four alternate connections in addition to the base connection. When you initiate a NetWare for SAA connection, IRMA WorkStation first attempts to use your base connection, and if unsuccessful, tries to use any alternate connections you have specified.

On the Configure 3270 Sessions for SAA - Advanced Options dialog box, an Alternate Connection group of buttons has been added, as shown in Figure 1-1, allowing you to configure up to four alternate connections.

For the base connection, Server Name and Service Name default to asterisk (\*). There is no default for User Name. Wild cards are supported for all settings.



**Figure I-1. Configure 3270 Sessions for SAA - Advanced Options dialog box**

Once a session is activated, if the initial connection to the base server fails for any reason, a dialog box is displayed showing the current configuration—server, service, user name, LU category, and so on. You can correct any invalid information and try to connect to the selected server using the new settings. Or you can click Skip to try to connect to the next server on the list.

If you click Skip, IRMA WorkStation tries to connect to the next alternate server. An incorrect password causes a dialog box to be displayed, prompting you to enter the password again. If the connection attempt fails for any reason other than an incorrect password, IRMA WorkStation continues trying to connect to subsequent servers on the list.

If all servers on the configured list have been tried and no valid connection is available, the message "No alternate host connection available" is displayed. You can choose another server to connect to, click Cancel to exit, or click Skip to try connecting from the server list again.

## QuickLinks

QuickLinks lets you create links between host applications and your Windows PC applications, such as Excel. Through these links, your PC applications are continuously updated with current information from the host; and associated graphs and charts are updated, too.



With QuickLinks, you can eliminate the time-consuming task of copying mainframe application data from a session window and pasting it into your PC application. QuickLinks provides the data you need in the form you need it, where you need it.

To set up a QuickLink, you activate an emulation session with the host application from which you want to gather information. Then, you link the appropriate host data (that is, the data you want to use as the source) to your PC application.

## Creating QuickLinks

To create a QuickLink, follow these steps:

- 1 Activate an emulation session with the host application from which you want to obtain data. Note that you must use a defined session profile to communicate with the host; you cannot use an Untitled session to create a QuickLink.
- 2 If necessary, scroll through the session display screens until you find the information you want to link to the PC application.
- 3 On the host screen, select the appropriate text.
- 4 Choose Copy from the Edit pull-down menu to copy the selected text to the clipboard.

**NOTE:** If you are copying tabular data rather than blocks of text, choose Copy Table from the Edit pull-down.

- 5 Switch to the PC application to which you want to link the copied text, and mark the area in the application (for example, the cells in a spreadsheet) where the updated text should be placed.
- 6 Paste the text from the clipboard to the area you have marked. Refer to your PC application documentation for information on how to paste links.
- 7 Repeat steps 2 through 6 until you have created all of the required QuickLinks for the application.

Through your new QuickLink(s), the data in your PC application will be updated whenever the host data is updated.

## QuickLink time-out

You can configure the number of seconds your PC application will wait for data from the host application to which it is linked before timing out. Follow these steps:

- 1 In the 3270 Terminal application, pull down the Edit menu and choose Edit Options. The Edit Options Configuration dialog box is displayed. The QuickLink Timeout edit box is at the bottom left of the dialog box.
- 2 Enter the number of seconds you want your PC application to wait for data from the host application before timing out (the default is 10 seconds).

## QuickView

The QuickView feature offers a way of displaying a related group of terminal sessions while temporarily hiding other sessions. For example, suppose you are a customer support representative. For one type of service call, you need to look at the host application screens displayed on sessions A and B. For another type of service call, you need to access information on the screens for session C. Using the QuickView feature, you can define one QuickView to display only sessions A and B and define another QuickView to display only session C. By switching between the QuickViews, which appear in a list box when you select QuickView from the Window pull-down, you can see only the screens that apply to what you are working on at the time.

**NOTE:** Once you assign a session to a QuickView, you cannot move or resize the session when you assign it to a different QuickView. The session window always appears in the same size and position as it was in the first QuickView. For example, if you assign sessions A and B to one QuickView and sessions A and C to another QuickView, session A is the same size and in the same position in both QuickViews.

To define a QuickView, choose Define QuickView on the QuickView list box. The Define QuickView dialog box is displayed.

You can define up to five QuickViews. In addition to accessing your QuickViews from the Window pull-down menu, you can assign them to your keyboard profile. This option is described in the next section.

## New 3270 functions for keyboard profiles

The following functions can now be added to your keyboard profile using the Key List Editor from the Utilities pull-down menu on the Keyboard Editor main screen:

- Zoom Session Window
- Jump to Next Session
- Select Session *n*
- Select QuickView *n*
- Select Next QuickView

The user's guide describes how to use the Key List Editor to add new functions to the working profile. You can also get more information by clicking Help on the Key List Editor dialog box.

## Assigning macros and QuickScripts to a keyboard profile

You can now add macros and QuickScripts to a keyboard profile using the Key List Editor from the Utilities pull-down menu.

## Color intensity

A new feature has been added to the 3270 Terminal application that lets you overcome the limitations of brightness and color selection of the 3270 terminal.

When you select the Extended radio button in the Intensity field of the Screen Colors dialog box, your 3270 and IRMA WorkStation displays appear slightly dimmer than before.

This enables 3270 data fields having both color and highlighting attributes to appear in the specified color and also noticeably brighter.

## Help for SISL commands

QuickScript now provides on-line help for SISL<sup>™</sup> (Standard IRMA Script Language) commands.

## Time Delay for QuickExec

A configurable Time Delay option for QuickExec<sup>™</sup> is now provided to allow extra time, if needed, for applications in your QuickExec profiles to start. The delay you configure occurs after one application starts and before the next one starts.

This feature prevents an application from attempting to execute before the previous application has initialized. Specifically, if you are starting client sessions to Select Comm Server, you may need to enter a time delay of 10 seconds to allow for the initialization of WNAP.DLL.

To change the time delay to something other than the default of zero seconds, follow these steps:

- 1 Click the QuickExec icon. The QuickExec Profile Editor dialog box appears.
- 2 Open a QuickExec profile or choose an application from the Application List to add to a new profile.
- 3 In the Time Delay edit box, enter the number of seconds you want to wait before starting the next application.
- 4 Click Add, to add the application to the list of Profile Entries; or click Replace to save the changes to the modified profile entry.

A pop-up dialog box asks you to confirm your changes.

## QuickApp support

QuickApp™, version 1.1.0, which includes application development options for Visual Basic™, Visual C++™, and PowerBuilder™, is now supported.

## ► Corrections to existing documentation

Table 1-1 covers corrections to the user's guide.

**Table 1-1. Corrections to the user's guide**

Page number	Correction
2-2	The second to last bullet of the installation checklist states that Common Service verbs are supported in a CUT environment. This is incorrect. Common Service verbs are not supported in a CUT environment.
G-3	Figure G-1 is an example of an 83-key keyboard, not a 101-key keyboard as indicated in the figure title. The 83-key keyboard is not supported under Windows.

## ► Installation checklist

The installation program has changed. Before you begin installing IRMA WorkStation for any connection type, make sure you have the following information from your system administrator:

- What kind of installation are you performing? Based on your requirements, you may have one of the following types of installations:
  - File Server. Are you installing IRMA WorkStation from a PC to the server PC? Only the system administrator can perform this type of installation.
  - Personal Workstation. Are you installing IRMA WorkStation from distribution diskettes onto your PC? This type of installation does not access IRMA WorkStation from a server PC.
  - Client Attach. Are you going to download IRMA WorkStation from a server PC? This type of installation requires that IRMA WorkStation be installed first on the server PC by the system administrator.
  - Workstation Update. Are you updating only specific IRMA WorkStation files on your PC?
  - Server Update. Are you updating IRMA WorkStation on a server PC? Only the system administrator can perform this type of installation.
  - Client Update. Are you updating IRMA WorkStation on your PC due to an IRMA WorkStation update on the server PC?
- In which directory do you want IRMA WorkStation to be installed?
- Do you want to update the existing version of IRMA WorkStation on your computer?
- If you are updating an earlier version of IRMA WorkStation, do you want to save the configuration files?
- What connection types (for example, DFT, CUT) do you want to install?
- Which connection type will be the primary one?
- What applications (for example, emulator, printer support) do you want to install?
- If you have a coaxial board, what are its addresses (for example, base load and shared memory addresses)? This step may be bypassed using Autosense.

- Do you want to specify a private directory during installation? This private directory would store personalized configuration files. You would have the convenience of leaving these configuration files untouched by the updates. If yes, where will this private directory be located?
- What will be the name of the Program Manager Group Box that contains IRMA WorkStation?
- Will you want the Setup program to automatically change the system files or will you do it manually?



## **Connecting to Select Comm Server**

- **General information**
- **Installation instructions**
- **Using the Customizer application**
- **Using the Browser feature**





## ► General information

Before you continue reading this chapter, note the following:

- If you choose to set up IRMA WorkStation as a client to Select Comm Server, you can use only Select Comm Server to connect to host or peer computers. You cannot use another gateway at the same time.
- IRMALINK file transfer is not supported when you use IRMA WorkStation to connect to Select Comm Server.

## ► Installation instructions

This section explains how to connect an IRMA WorkStation PC to a Select Comm Server gateway.

### Understanding the installation process

Installing the IRMA WorkStation PC as a client to Select Comm Server is a two-part process:

- Prepare the server PC. This step must be performed first, usually by the system administrator, and it involves installing IRMA WorkStation on the server PC. Once this server PC is ready, the IRMA WorkStation PC can be set up as a client.
- Install IRMA WorkStation on the IRMA WorkStation PC. This can be done by the system administrator or the PC user. The IRMA WorkStation PC can be set up as a client to Select Comm Server either by downloading the software from the server PC, or by loading the distribution diskettes onto the IRMA WorkStation PC. Both methods are described in this chapter.

### Are you upgrading from Select Client for Windows 2.0?

If you are a Select Client for Windows user and you need to upgrade to IRMA WorkStation, you can use the information in this chapter to do so. Continue by using the instructions in the following section, "Getting the Server PC Ready," and then use the instructions in subsequent sections.

### Installation checklist

Before you begin the installation, make sure you have the following information from your system administrator:

- Where is the Comm Server directory? This must be available at installation time.
- How many Comm Server nodes are required?

- Is the server PC on a different domain than the client PC? If so, what is the name of the Comm Server master node? What is the name of the Comm Server backup node, if any?
- Has Select Comm Server been installed and configured on an appropriate PC? If not, make sure Select Comm Server has been installed and configured.
- Do the clients that need to be connected to Comm Server have read access privileges for the Comm Server \COMMSRV directory? If not, make sure these clients have these privileges.

## Getting the server PC ready

As a system administrator, the first thing you need to do is install IRMA WorkStation on the server PC.

**NOTE:** If you're installing other connections, turn to the user's guide and follow the appropriate instructions in Chapter 2, "Installing and Configuring the Software."

Follow these steps:

- 1 Access the drive and directory where your Comm Server software is installed. Type the following:

**NET USE** *drive:\servername\COMMSRV*

- 2 Insert the diskette labeled IRMA WorkStation for Windows Disk 1 in any available disk drive on your server PC.
- 3 Start Windows.
- 4 Choose Run from the Windows Program Manager File pull-down.
- 5 In the Command Line edit box, enter the diskette drive and the program name as follows:

*drive:\SETUP*

The Language Selection dialog box is displayed.

- 6 Specify the language (character set) you want to use and choose OK. The Setup dialog box is displayed. After the Setup program is loaded, the IRMA WorkStation for Windows introductory screens are displayed.

**NOTE:** Before continuing with the installation process, choose the Read This push button to display the Read This First file, which contains last-minute instructions or changes to IRMA WorkStation.

- 7 At the Welcome to IRMA WorkStation for Windows dialog box, choose the Install to File Server for Shared Access option.

- 8 Follow the instructions on the screen to install the client files on the server PC.

You can now perform the rest of the installation process. Continue with the next section, "Installing IRMA WorkStation on the IRMA WorkStation PC."

## Installing IRMA WorkStation on the IRMA WorkStation PC

You are now ready to install IRMA WorkStation on the IRMA WorkStation PC. This is the second part of the installation process.

You can use one of the following methods:

- Install the required software by downloading it from the server PC. Use this method if you do not have access to the IRMA WorkStation distribution diskettes or if, based on the information in the following paragraph, you decide that this method best suits your requirements.

The advantage of this method is that it saves local disk space on the IRMA WorkStation PC. The disadvantage is that it could take longer to install the software if the network where IRMA WorkStation is installed is slower than the floppy drive. The network may be slower due to any reason, for example, the clients may be connected to the server PC on a LAN by a slow communications medium such as a dial-up line.

- Install IRMA WorkStation by loading the IRMA WorkStation distribution diskettes. You can use this method only if you have access to the IRMA WorkStation distribution diskettes.

The advantage of this method is speed (provided the network where IRMA WorkStation is installed is slower than the floppy drive). The disadvantage is that this method uses more local disk space on the IRMA WorkStation PC.

Both methods are described in the following paragraphs.

### Installing the required software from the server PC

Installing the required software from the server PC is the method used most often and does not involve the use of IRMA WorkStation distribution diskettes to install IRMA WorkStation. You run the SETUPWIN program to access IRMA WorkStation from the server PC.

**NOTE:** You will need the information from the installation checklist you have prepared as you complete these steps.

Follow these steps:

- 1 Start Windows on your IRMA WorkStation PC.
- 2 Choose Run from the Windows Program Manager File pull-down.

**NOTE:** The next step is crucial to the installation. Make sure you perform this step to access the SETUPWIN program from the server PC disk drive.

- 3 In the Command Line edit box, enter the server PC disk drive and the program name as follows:

*drive:*\SETUPWIN

During the installation, you need to choose from the following options:

- Copy all of the IRMA WorkStation files from the server PC to your IRMA WorkStation PC (executables included). This method requires more local disk space but the executables load faster. This method is referred to as a client-based installation.
  - Leave all the IRMA WorkStation files on the server PC, except for those placed in a private directory on your IRMA WorkStation PC. This method saves local disk space but the executables take longer to load. This method is referred to as a server-based installation.
- 4 Follow the instructions on the screen to continue the installation process.
  - 5 Reboot the IRMA WorkStation PC after IRMA WorkStation is installed.

### Installing IRMA WorkStation from the IRMA WorkStation distribution diskettes

This method is used less frequently because it requires you to get a set of IRMA WorkStation distribution diskettes, which you may or may not have access to. As mentioned earlier, the advantage of this method may be speed, if the network where IRMA WorkStation is installed is slower than the floppy drive; however, the disadvantage is that more local disk space is used.

**NOTE:** You will need the information from the installation checklist you have prepared as you complete these steps.

Follow these steps:

- 1 Insert the diskette labeled IRMA WorkStation for Windows Disk 1 in any available disk drive on your IRMA WorkStation PC.
- 2 Start Windows.
- 3 Choose Run from the Windows Program Manager File pull-down.

- 4 In the Command Line edit box, enter the diskette drive and the program name as follows:

*drive:***SETUP**

The Language Selection dialog box is displayed.

- 5 Specify the language (character set) you want to use and choose OK. The Setup dialog box is displayed. After the Setup program is loaded, the IRMA WorkStation for Windows introductory screens are displayed.

**NOTE:** Before continuing with the installation process, choose the Read This push button to display the Read This First file, which contains last-minute instructions or changes to IRMA WorkStation.

- 6 At the Welcome to IRMA WorkStation for Windows dialog box, select the Install Personal WorkStation option.
- 7 Choose Comm Server as your connection, and then choose an appropriate destination path. Follow the instructions on your screen to install the client files on your IRMA WorkStation PC.
- 8 Reboot your IRMA WorkStation PC after IRMA WorkStation is installed.

### **Do you need to customize your setup?**

The default Comm Server settings generally work for most installations. However, if you think you want to change some of the settings, continue with the following sections, which describe the Customizer application. If you do not want to change the default Comm Server settings, instead continue with the section about the Browser.

## ► Using the Customizer application

The Customizer application, which is available if you are connecting to Select Comm Server, lets you set up customized configurations that meet your particular communications needs. This section covers the following topics:

- Introducing the Customizer
- Information you need before you begin
- Starting the Customizer
- Customizing client features
- Saving style files
- Exiting the Customizer

This section provides brief steps for performing tasks. For a more complete description of dialog boxes and their options, use the Customizer on-line help.

### Introducing the Customizer

Once you have set up your IRMA WorkStation PC as a client to Comm Server, you can communicate with the host using the default configuration. Optionally, you can modify the configuration using the Customizer application. In most cases, the default settings are fine. However, you may need to modify the defaults if, for example, you want to run a HLLAPI program that has a unique Session ID and Long Name.

The Customizer lets you change the configuration settings. The settings are saved in files called style files (with an extension of .CCF), which are used by IRMA WorkStation when communicating with Comm Server. You can use the default settings as a base to customize the following features:

- Keyboard type
- Host character set
- Keyboard type-ahead feature
- 3270 emulation session parameters

Note that the settings you specify can affect all of your 3270 sessions. When you have set up your customized configuration, you can save it under a new style file name if you want.

**NOTE:** The initial style file is specified by the system administrator in the Comm Server configuration file. If you save your style file using the name of the initial style file, that file is opened automatically by the Customizer application if you run the application again.

If you specified a private path during setup, the Customizer application searches the private path before any other item.

The sections that follow provide guidelines for customizing client features and saving style files. The next section explains what information you need to gather before you begin.

## Information you need before you begin

Most of the communications parameters that support client activity are configured at the Comm Server PC. There are some, however, that you can configure at your PC to meet your individual requirements.

Before you start the Customizer, find out the following information from your system administrator:

- The style file name specified for your user ID in the Initial Style File field of the Configure 3270 User dialog box in the Comm Server configuration program.

**NOTE:** Only the administrator has access to a list box that displays all style files stored on the server in the COM.CFG directory. If necessary, the administrator can use this list box to choose a style file to match the user's needs.

When the Customizer is started, look for the style file name with the appropriate extension on your display. Windows and PM client files are saved with a .CCF extension. DOS client style files are saved with an .STD extension. OS/2 client style files are saved with an .STO extension. In some cases, the style files may be displayed without an extension.

**NOTE:** To modify your style file, the Comm Server administrator must have checked the Modify Initial Style check box of the Configure 3270 User dialog box of the Comm Server configuration program. If this box is not checked, you cannot modify the default settings in your style file.

- The style file location. The Customizer and other applications search for style files in the following locations at start-up:
  - The private path you specified through the Setup program
  - The DCAWIN directory contained in the destination directory path you specified using the Setup program (this is known as the Default Path)
  - The server configuration directory (that is, the COMCFG directory located in the COMMSRV volume)

The applications search these locations in the order shown. If your style file is not in one of these locations, the applications cannot find it.

**NOTE:** The Customizer allows you to open style files from any location. All you need to do is specify the location when you open the file. Only the one specified by the administrator in the Comm Server configuration is used by the client.

- For 3270 sessions:
  - The session ID, if a HLLAPI application requires a specific session ID
  - The session long name, if a HLLAPI application requires a specific long name
  - The optimum structured field size for transferring files
- For host language support:
  - CECF translation requirements
  - The host character set
- Your keyboard type

## Starting the Customizer

To start the Customizer, choose the Customizer icon from the group box. The Customizer dialog box is displayed.

The action bar pull-downs are described in Table 2-1.



**Table 2-1. Customizer pull-downs**

<b>Pull-down</b>	<b>Explanation</b>
File	Lets you open, create, and save style files (client customizer files), and exit the Customizer.
Customize	Provides options to configure 3270 sessions, choose language support, select a keyboard, and initiate keyboard type ahead.
Help	Provides on-line assistance. For more information, see the user's guide.

In the following sections, you will find guidelines for customizing client features.

## Customizing client features

This section explains how to customize the client for your communications environment. The following tasks are described:

- Configuring 3270 sessions
- Choosing a host character set
- Selecting a keyboard
- Using the keyboard type-ahead feature

### Configuring 3270 sessions

You can configure up to 10 sessions. However, you can activate only a maximum of 5 sessions at one time. The following paragraphs explain how to define and clear session parameters.

#### Defining session parameters

If you are creating a new style file, you can use the defaults provided in the Customizer as a base from which to make your modifications. To define session parameters, follow these steps:

- 1 Choose Sessions from the Customize pull-down. The Sessions dialog box is displayed.
- 2 Choose a session from the list box, and then choose Configure. The Configure Display Session dialog box is displayed.
- 3 Specify the session ID, session long name, description, and maximum structured field size in the Configure Display Session dialog box. Then choose OK.

- 4 Repeat steps 2 and 3 until you have configured all of the sessions.
- 5 Choose Done to establish the session parameters.

**NOTE:** If there is no style file loaded by the Customizer, you have to select the New option from the File menu to initialize the parameters.

### Clearing session parameters

Clear session parameters if you do not want them to show up in the list. To clear session parameters or to redefine a session, follow these steps:

- 1 Choose Sessions from the Customize pull-down. The Sessions dialog box is displayed.
- 2 Choose the session you want to redefine.
- 3 Choose Undefine. The session parameters are cleared.
- 4 If you want to redefine the session, follow the steps for defining session parameters in the preceding section.

### Choosing a host character set

The client supports various host character sets. To choose the character set used by your host computer, follow these steps:

- 1 Choose Language Support from the Customize pull-down. The Language Support dialog box is displayed.
- 2 Specify if you want CECP character-set support.
- 3 Choose the character set used by your host.
- 4 Choose OK to confirm your selections.

Note that not all character sets are supported by CECP. For information on host character sets, see the user's guide.

### Selecting a keyboard

If you need to use a different keyboard from the default provided with the software, you can specify a new keyboard. Each keyboard has its own set of characteristics, and these characteristics are defined in profiles that are unique for each keyboard.

You can specify three separate keyboard profiles to use at the client PC—one to use under normal circumstances, one to use as an alternate, and one to use as the QuickPad™.

**NOTE:** You can specify a normal keyboard profile without specifying QuickPad.

## International keyboards

If you are an international user, your keyboard profile names have the following format:

*XXYN/VV.KBD*

The following paragraphs explain the format:

- XX* This is the country code; for example, UK.
- Y* This is the Country Extended Code Page (CECP) indicator. There are two possible values:
- C* CECP character set
  - N* Non-CECP character set
- VV* This is the number of keys on the keyboard; for example, 102.
- .KBD* This is the file name extension.

Keyboard profiles based on a CECP character set usually have more characters mapped on the keyboard than do those based on non-CECP character sets. You can use the Keyboard Editor's Key List Editor feature to map any CECP characters you want on your keyboard profile.

For non-CECP character sets, only the existing characters on the non-CECP keyboard profile are valid. For more information about the Key List Editor, see Chapter 7, "Using the Keyboard Editor," in the user's guide.

## Choosing a keyboard profile

To choose your keyboard profiles, follow these steps:

- 1 Choose Keyboard Profile Selection from the Customize pull-down. The Keyboard Profile Selection dialog box is displayed.
- 2 Specify the keyboards as follows:
  - To identify the keyboard profile you will use with the 3270 terminal emulator, choose Normal from the Select Profile Type radio group. Then specify the keyboard file name and path in the Profile box, and choose Select. The name you specify appears beside the Normal radio button.

- To identify the QuickPad, choose QuickPad from the Select Profile Type radio group. Then specify the file name and path in the Profile box, and choose Select. The name you specify appears beside the QuickPad radio button.

3 Choose OK to confirm your selections.

**NOTE:** The normal keyboard file names have a .KBD extension. QuickPad file names have a .QBD extension.

### Deleting a keyboard profile

To delete a keyboard profile, choose the radio button for the keyboard you want to remove and choose Clear from the Profile box. The keyboard profile is deleted.

### Using the keyboard type-ahead feature

The keyboard type-ahead feature allows you to enter up to 15 keystrokes in advance and store them in a buffer. This is useful when a Do Not Enter status-line message appears; you can continue typing until the buffer is full.

To initiate type ahead, choose Keyboard Type Ahead from the Customize pull-down. This option acts as a toggle to activate and deactivate the type-ahead feature. When you want to turn off keyboard type ahead, choose the option again. Type ahead is deactivated.

## Saving style files

When you have finished customizing the client features, you must save your changes to a client style file. Client style files have a .CCF extension. The Customizer ensures that a .CCF extension is used.

Note that for your customization changes to be used by the 3270 Terminal application, you must save your changes to the style file specified for your user ID in the Comm Server configuration program.

The following paragraphs explain how to save new and existing style files, and how to save existing style files under different names.

### Saving a new style file

To save a new style file, complete the following steps:

- 1 Choose Save As from the File pull-down. The Save Style File dialog box is displayed.
- 2 Specify the file name.

It is best if you enter the style file name without directory information. The style file will automatically be placed in an appropriate directory, and the title line will display the location.

However, if you set up a private path through the Setup program, the private path is shown as the default directory. To ensure that the applications find the style file, save the file to this directory, to the DCAWIN directory of the PC where the client files are installed, or to the directory called \COMMSRV\COMCFG on the Comm Server PC. If your style file is not in one of these locations, the applications cannot find it.

**NOTE:** The name of your style file should match the name of the initial style file. Note also that the Customizer replaces all style file extensions with a .CCF extension.

### 3 Choose Save to save the file.

Your new configuration is saved with a .CCF extension in the specified file, which remains open. You can continue to record parameters in this file. The next time you save it, follow the instructions for saving an existing style file.

## Saving an existing style file

If you want to save a style file that you have saved before, choose Save from the File pull-down. The system saves your file using the path and file name of the currently opened file.



**CAUTION:** You will lose the previous settings unless you save the changes under a new name using Save As. See the following section for instructions.

## Saving an existing style file under a new name

If you are working with an existing style file, you can use Save As from the File pull-down to save the current file under a different name. When you have finished the Save As operation, the file you initially opened is unchanged. The new file reflects the changes you made to the original file.

You can use this procedure to save alternate configuration settings. To use an alternate configuration, you must rename the .CCF file to match the style name specified for your user ID in the Comm Server configuration program.

To save an existing style file under a new name, complete the following steps:

- 1 Choose **Save As** from the **File** pull-down. The **Save Style File** dialog box is displayed.

- 2 Specify the file name and directory path.

It is best if you enter the style file name without directory information. The style file will automatically be placed in an appropriate directory, and the title line will display the location. The Customizer replaces all style file extensions with a .CCF extension.

If you set up a private path through the Setup program, the private path is shown as the default directory. To ensure that the Customizer finds the style file the next time you start the Customizer, save the file to either this directory, the DCAWIN directory of the PC where the client files are installed, or the \COMMSRV\COMCFG directory of the Comm Server PC.

- 3 Choose **Save** to save the file. Your file is saved with a .CCF extension.

## Exiting the Customizer

When you have completed the client configuration, choose **Exit** from the **File** pull-down. If you have made changes to the current configuration that have not been saved, you are prompted to save them.

## ► Using the Browser feature

The Browser feature, which is available if you are connecting to Select Comm Server, lets you monitor and troubleshoot IRMA WorkStation as a client to Select Comm Server. You can capture log and trace data in files that you can view at a later time. This chapter covers the following:

- Introducing the Browser
- Starting Browser
- Using log files
- Using trace files
- Looking up audit and error log messages

This chapter provides brief steps for performing tasks. For a more complete description of dialog boxes and their options, use the on-line help provided with IRMA WorkStation. For additional information, refer to the *DCA/Microsoft Select Communications Server Administrator's Guide* (part number 016596).

## Introducing the Browser

The Browser application in Comm Server lets you display diagnostic information that helps you monitor and troubleshoot your data communications. There are two types of diagnostic files:

- Log files, which include audit logs and error logs and hold information about significant system-wide events. These log files are located in the "logs" directory on the Comm Server PC.
- Trace files, which trace communications activity across the network. These files are located in a directory you specified earlier during logon.

**NOTE:** Only one active audit log, one active error log, and one active trace file can capture audit, error, and trace information at any time. You can save data from an active diagnostic file to another file for subsequent review.

## Displaying and printing log and trace data

The Browser lets you display or print active log and trace files. You can customize the file output as follows:

- Display or print messages based on selection criteria such as severity level, service type, the inclusion of a specified character string embedded in message text, or any combination of these criteria.
- Choose which message header fields to display or print by filtering out the date, time, type, and severity level of the message.
- Display or print a separate line for each header.
- Display or print all messages that have been logged since you started a session and opened the file for viewing or printing.

## Monitoring and troubleshooting problems

A typical sequence of events for using Browser is the following:

- Set the log severity level to report only errors (Comm Server errors), and turn tracing off.
- When an error occurs whose cause is not readily apparent, lower the log severity level to gather detailed information.
- Use Browser to read the contents of the log file.
- If the cause is still not apparent, run tracing on the components that are relative to the error.
- Use Browser to read the contents of the trace file.

## Starting Browser

To start Browser, choose the Browser icon from the group window. The Browser action bar is displayed.

The action bar pull-downs are described in Table 2-2.

**Table 2-2. Browser pull-downs**

<b>Pull-down</b>	<b>Explanation</b>
File	Lets you open log and trace files, print the contents of open files, and exit Browser.
Edit	Provides options to copy selected portions of a log or trace file to the clipboard and to clear the clipboard.
Settings	Lets you establish log and trace parameters.
Help	Provides on-line help. For information, see the user's guide.

## Using log files

There are two types of log files—an audit file and an error file. These files provide information about internal operations that involve nodes, link services, and TPs. Messages are recorded in the files as long as the node, link service, or TP is active. The type of information recorded depends on the diagnostic settings specified in the Comm Server configuration file.

In this section, you will find information on opening log files, customizing log output, viewing and printing logs, and editing log data.

## Opening log files

If you want to review log information, copy file data to the clipboard, customize file output, or print a report, you must open a log file.

To open a log file, follow these steps:

- 1 Choose Open from the File pull-down. The Open dialog box is displayed.
- 2 Specify the file type and file name.
- 3 Choose Open to display the file.



## Customizing log output

Your log files contain all of the information captured during the logging process. You may not want to view all of this data. For example, you may need to generate a customized report containing only the 3270 messages. You can tailor your display or printout to include just the information you need from the file.

Customizing diagnostic reports allows you to efficiently review and use the information stored in a log file. You can specify the fields to display and the types of records to view using the Settings pull-down options.

You must open a log file before you can customize the output. See the preceding section, "Opening Log Files," for information on this procedure.

## Displaying selected fields

To specify the fields to include in your report, complete the following steps:

- 1 Choose Log File from the Settings pull-down and then choose Field Display. The Log File Display Options dialog box is displayed.
- 2 Choose one or more field display options such as Date, Time, Computer Name, and Continuous Update.

**NOTE:** If you want to display new log-file entries as soon as they are available, be sure to choose Continuous Update. If you do not choose this option, your report contains only those entries that were in the file at the time you opened it.

- 3 Choose OK to display the fields.

Your log file display is formatted according to the options you select. These options become the new defaults and remain in effect until you change them. If you need to generate reports containing different fields, you must establish new field display parameters.

## Viewing specific records

To specify the types of log records to display or print, complete the following steps:

- 1 Choose Log File from the Settings pull-down and then choose Record Filter. The Log File Filter Options dialog box is displayed.
- 2 Specify such record filters as 3270 User Name, Type, and Lowest Severity.

**NOTE:** When you specify the lowest severity of the messages to be displayed, your report contains log messages at that level and higher.

- 3 Choose OK to view the records.

Your log file display is formatted according to the options you select. The options are in effect for this display session only.

## Viewing and printing logs

To monitor and troubleshoot the client, you will want to view or print your log files. To perform either task, you must open the file you want to see. Refer to the section "Opening Log Files" earlier in this chapter for a description of this procedure.

When you open a log file, its contents appear on the screen. The file you are viewing remains open until you open another file or exit Browser. To examine the contents of the file, use the mouse and selection bar or the cursor, PgUp, PgDn, Home, and End keys.

To obtain a paper copy of the displayed log file, choose Print from the File pull-down. The contents of the file are directed to the printer.

## Editing log data

You can use the Edit pull-down to copy all or portions of a log file to the clipboard. You can then retrieve the data from the clipboard and save it in another file by using an application, such as a text editor, that supports clipboard retrieval. You can also use the Edit pull-down to clear the clipboard.

To copy file data to the clipboard, follow these steps:

- 1 In the open log file, highlight the information you want to copy.
- 2 Choose Copy from the Edit pull-down. The information is copied to the clipboard.

To clear the clipboard, choose Clear from the Edit pull-down. Data previously copied to the clipboard is deleted.

## Using trace files

Trace files are created for nodes, link services, and TPs. They record activity at a component boundary, that is, they track the calls and activities of APIs that use the node and any of its link services. They continue to record information until the node, link service, or TP is no longer active.

The following trace types are supported:

API tracing	APPC, HLLAPI, and CSV interfaces are traced.
Link tracing	SDLC, X.25, DFT, and token-ring link services are traced.
Node tracing	<p>Any message that is part of an active node can be traced. These messages can be in either of the following formats:</p> <ul style="list-style-type: none"><li>● Internal, which is a proprietary trace format</li><li>● SNA format</li></ul>

This section provides guidelines for opening trace files, customizing trace output, viewing and printing trace information, and editing trace data.

## Opening trace files

If you want to review trace information, copy file data to the clipboard, customize file output, or print a trace report, you must open the trace file.

To open a trace file, follow these steps:

- 1 Choose Open from the File pull-down. The Open dialog box is displayed.
- 2 Specify the file type and file name.
- 3 Choose Open to display the file.

## Customizing trace output

Your trace file contains all of the information captured during the tracing process. You may not want to view all of this data. For example, you may need to generate a customized report containing only APPC and DLC messages. You can tailor your display or printout to include just the information you need from the trace file.

You must open the trace file before you can customize the trace output. See the previous section, "Opening Trace Files," for information on this procedure.

## Displaying selected fields

To specify the fields to include in your report, follow these steps:

- 1 Choose Trace File from the Settings pull-down and then choose Field Display. The Trace File Display Options dialog box is displayed.
- 2 Specify one or more field display options such as Process ID, Thread ID, Trace Type, and Continuous Update.

**NOTE:** If you want to display new trace-file entries as soon as they are available, be sure to choose Continuous Update. If you do not choose this option, your report contains only those entries that were in the file at the time you opened it.

- 3 Choose OK to display the fields.

The trace file output is formatted according to the options you select. These options become the new defaults and remain in effect until you change them. If you need to generate reports that include other message fields, you must establish new field display parameters.

## Viewing specific records

To specify the type of trace records to display or print, follow these steps:

- 1 Choose Trace File from the Settings pull-down and then choose Record Filter. The Trace File Filter Options dialog box is displayed.
- 2 Specify the trace type. The trace types supported by Comm Server are listed in Table 2-3.
- 3 Choose OK to view the records.

Your trace file display is formatted according to the options you select. These options are in effect for this display session only.

**Table 2-3. Trace types**

Trace type	Explanation
APPC	Traces the activity between the APPC DLL and an APPC application.
CSI	Traces the activity between the Comm Server manage application and the node.
CSV	Traces the activity between the CSV DLL and a CSV application.
DFT	Traces the boundaries between a DFT adapter and the link service.

**Table 2-3. Trace types (cont.)**

<b>Trace type</b>	<b>Explanation</b>
DLC	Traces data link control activity between the link service and the node.
EHLL	Traces the activity between the HLLAPI DLL and HLLAPI applications.
FMI	Traces the interface into the node for LU types 1, 2, and 3.
PVI	Traces the LU 6.2 interface into the node.
SDLC	Traces the boundaries between an SDLC adapter and the link service.
SNA	Traces DLC messages. To understand these trace messages, you must have a knowledge of SNA formats and protocols.
SNAP	Traces SNA-related messages that are internal to the Comm Server software.
SRPI	Traces the activity between the SRPI DLL and a SRPI application.
TR	Traces the boundaries between a token-ring adapter and the link service.
X25	Traces the boundaries between an X.25 adapter and the link service.

### Viewing and printing traces

To monitor and troubleshoot the client, you will want to view or print the trace file. To perform either task, you must open the file you want to see. Refer to the section "Opening Trace Files" earlier in this chapter for a description of this procedure.

When you open the trace file, its contents appear on the screen. The file you are viewing remains open until you open another file or exit Browser. The display includes information that is stored in the trace file from the time a trace is enabled until the application being traced is no longer active. To examine the contents of the file, use either the mouse and selection bar, or the cursor, PgUp, PgDn, Home, and End keys.

To obtain a paper copy of the displayed trace file, choose Print from the File pull-down. The contents of the file are directed to the printer.

# Editing trace data

You can use the Edit pull-down to copy all or portions of a trace file to the clipboard. You can then retrieve the data from the clipboard and save it in another file by using an application, such as a text editor, that supports clipboard retrieval. You can also use the Edit pull-down to clear the clipboard.

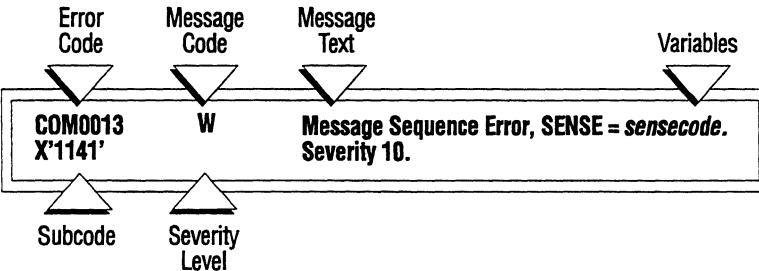
To copy file data to the clipboard, follow these steps:

- 1 In the open trace file, highlight the information you want to copy.
- 2 Choose Copy from the Edit pull-down. The information is copied to the clipboard.

To clear the clipboard, choose Clear from the Edit pull-down. Data previously copied to the clipboard is deleted.

# Looking up audit and error log messages

The audit and error messages in the log file are in the general format shown in Figure 2-1.



**Figure 2-1. Log file message format**

The message parameters are explained in Table 2-4.

**Table 2-4. Log message parameters**

Message field	Explanation
Error code	<p>The error code is in the following format:</p> <p>COMnnnn</p> <p>nnnn represents the message number.</p>
Message code	<p>The message code is in the following format:</p> <p>X</p> <p>X represents the code type. Code types can be any of the following:</p> <p>I Information/audit message (levels 6, 8, and 10)</p> <p>W Warning message (level 12)</p> <p>E Critical error (level 16)</p>
Message text	<p>The message text associated with the message code explains the error that occurred. The following is an example:</p> <p><b>Message Sequence Error, SENSE=sensecode</b></p>
Variables	<p>Variable data can be a parameter such as an LU name or user ID, or a return code giving the reason for the error. In the preceding message text example, <i>sensecode</i> is a variable.</p>
Subcode	<p>Some messages include a subcode, which is an internal hexadecimal identifier for the point at which the error occurred within the software. The subcode is in the following format:</p> <p>X'nnnn'</p> <p>X'nnnn' represents a 4-digit hexadecimal identifier.</p>

Table 2-4. Log message parameters (cont.)

Message field	Explanation
Severity level	<p>The severity level of a message is shown in the following format:</p> <p>Severity <i>nn</i></p> <p><i>nn</i> represents a message severity level. Severity levels can be any of the following:</p> <ul style="list-style-type: none"> <li>6 Detailed audit information.</li> <li>8 User and data link audit level, covering such events as user logon, APPC TP start/end, and connection establishment.</li> <li>10 Significant system events. These include events such as starting a network service or successfully updating a configuration file.</li> <li>12 Warnings/recoverable errors. Level 12 errors adversely affect the operation of a client component but do not cause its termination.</li> <li>16 Fatal errors. A level 16 error causes termination of a client component.</li> </ul>

For an explanation of the audit and error messages that are captured in your log file, refer to the Comm Server error message file contained on the Comm Server PC.





## **Connecting to the Eicon SNA LAN Gateway**

- **About the Eicon SNA LAN gateway**
- **Prerequisites for connectivity**
- **Configuring for 3270 emulation**



## ► About the Eicon SNA LAN gateway

The Eicon SNA LAN gateway allows client PCs to access an IBM host using 802.2, SDLC, or X.25 connections.

## ► Prerequisites for connectivity

Before you connect to an Eicon gateway, make sure you meet the following requirements:

- The Eicon SNA LAN gateway can use any LAN adapter that is IBM NETBIOS-compatible or supported by Novell® IPX/SPX or Banyan® IP. The LAN operating system can be any IBM NETBIOS-compatible LAN, NetWare® IPX/PX 2.15 or newer, or Banyan IP.
- To use the Eicon connectivity in IRMA WorkStation, you must first install the DOS Workstation Communications Drivers that are included with the Eicon Gateway. This installation provides the NABIOS interface that IRMA WorkStation uses to communicate with the Eicon Gateway. See the appendix for DOS Workstation Communications Drivers in the *Eicon SNA LAN Gateway Network Manager's Guide* for a list of files and further instructions.
- The following programs are provided by Eicon and must be loaded before an IRMA WorkStation PC can connect to an Eicon gateway:

NABIOS.EXE	The parameters for this command specify whether you are connecting to the Eicon gateway through NETBIOS or IPX/SPX. See the Eicon documentation for a description of the proper command line parameters.
------------	--

NARDR.CMD	This is invoked by NABIOS.EXE if you are connecting to the Eicon gateway with NETBIOS.
-----------	--

NARDRSPX.CMD	This is invoked by NABIOS.EXE if you are connecting to the Eicon gateway with IPX/SPX.
--------------	--

ECUSE.EXE	The parameters for this command specify the Eicon gateway(s) to which your IRMA WorkStation PC attaches. See the Eicon documentation for a description of the proper command line parameters.
-----------	---

- Note that if you are running Windows on a 386 or 486 PC in Enhanced mode, the following items must be placed in the SYSTEM.INI file under the '[386Enh]' section:

device=[path]VNABIOS.386

[path] is the complete path to where your Eicon programs reside. If this statement is left out of the SYSTEM.INI file, you will get a pop-up

that states, "NABIOS not loaded properly:100," when you bring up IRMA Workstation and try to connect a session.

NAHeapSize=XX

The variable XX is a numeric value. Usually 45 should be sufficient. If you are running several sessions that are doing a lot of processing, more space might be needed. If more is needed, you will get a pop-up stating that the value should be increased.

## ► Configuring for 3270 emulation

When you specify the Eicon SNA LAN gateway as your connection type during installation, the Eicon connection icon is available in the 3270 Configurator main dialog box so that you can configure IRMA WorkStation to communicate with this gateway.

**NOTE:** APPC is not supported for the Eicon SNA LAN gateway connection type. Also, an Eicon SNA LAN gateway connection cannot be deleted from the 3270 Configurator main dialog box.

### Setting up the Eicon Connection dialog box

Consider the following when you configure Eicon Basic or Advanced parameters in the Eicon Connection dialog box:

- The Options parameters are the options you want to automatically execute when you start IRMA WorkStation. Possible options include the following:
  - d Starts the software in diagnostics mode. It provides additional information about why a gateway connection may fail.
  - x Disables expedited flow when pacing is configured at the host. Pacing takes place on the normal flow.
- For the Connection Timeout parameter, specify the number of seconds IRMA WorkStation waits to receive acknowledgment of a gateway connection before it times out. If no gateway connection is made within that period, a warning message indicates that the connection is off line. You can try and reestablish a connection by using the on-line toggle key sequence. The default value for this parameter is 10 seconds.

## Setting up the 3270 Sessions dialog box

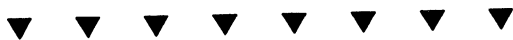
Keep the following in mind when setting configuration parameters for the Eicon SNA LAN gateway in the Configure 3270 Sessions dialog box (the Configure 3270 Sessions dialog box is explained on page 3-19 of the user's guide):

- The LU number (Advanced level) is assigned in the following way:
  - Choose Any or Specific. If you choose Any (which is the default), leave the Specific edit box blank. If you choose Specific, you are required to enter a number between 1 and 254. You can also click in the check box for Range and then enter a number in the Range edit box. This number should be at least the number you entered in the Specific edit box plus 1; however, the value you enter should not exceed 254. The emulator will then connect to the first LU available in the range specified.
- The Session Name (Advanced level) is not required. This parameter accepts up to 15 alphanumeric characters. The default is DCAIWW. This value is displayed with other session information when the Eicon command, **ECSTATUS**, is entered.
- The Device Type indicates the type of device your PC is emulating. Your choices are display or printer.
- The default for the Maximum Structured Field Size (Advanced level) parameter is 2 KB. If you enter a value larger than 2, the following warning message is displayed:

Structured Field size greater than 2K may crash the Eicon Gateway.

You are allowed to enter a value between 1 and 32. However, values greater than 2 are ignored.
- The PU Name refers to the name of the physical unit configured on the Eicon gateway. You are required to enter a PU name of up to 8 characters.
- For Gateway Name (Advanced level), enter a gateway name of up to 15 characters that matches the name specified at the gateway. (The gateway provides the host session support for the 3270 Terminal and 3270 Printer applications). You are not required to enter a gateway name if the ECUSE command (which is an Eicon-supplied DOS command used before running the emulator) specifies the name of the required gateway. The PU to which you are connecting is unique to that gateway.
- The Port ID (Advanced level) is required, and it must match the Eicon port ID that this gateway will use. The default value is 1. You are allowed to enter a value between 1 and 15. Contact your system administrator before you change this value.





## **Connecting to the Digital SNA Gateway**

- **About the Digital SNA Gateway**
- **Configuring for 3270 emulation**
- **Viewing session status**
- **Configuring the gateway connection time-out**





## ► About the Digital SNA Gateway

The Digital SNA Gateway allows PCs running IRMA WorkStation to access an IBM host using 802.2, SDLC, or X.25 connections.

## ► Configuring for 3270 emulation

When you specify the Digital SNA Gateway as your connection type during installation, the Digital SNA connection icon is available in the 3270 Configurator main dialog box so that you can configure IRMA WorkStation to communicate with this gateway.

There are two levels of configuration: Basic and Advanced. You can choose which level you want from the Settings pull-down menu.

### Setting up the Digital SNA Gateway Connection dialog box

When you click the Digital SNA connection icon in the 3270 Configurator main window, the Digital SNA Gateway Connection dialog box is displayed. The Options parameters are the options you want to automatically execute when you start IRMA WorkStation. You can enter one of the following options:

- d Starts the software in diagnostics mode. It provides additional information about why a gateway connection has failed.
- d2 Starts the software in diagnostics mode, but prevents most diagnostic messages from being displayed.
- d3 Displays the gateway and access name associated with other diagnostic error messages.
- x Disables expedited flow when pacing is configured at the host. Pacing takes place on the normal flow. See your IBM host administrator for more information.

### Setting up the 3270 Sessions dialog box

To configure a session, click the 3270 Session button on the 3270 Configurator main screen. The Configure 3270 Sessions dialog box is displayed. This section explains the configuration parameters for the Digital SNA Gateway in this dialog box (the Configure 3270 Sessions dialog box is explained on page 3-19 of the user's guide).

## Basic level parameters

If you choose Basic level, the Configure 3270 Sessions dialog box requests the following parameters:

**Gateway.** This is the name of the DECnet node associated with the Digital SNA Gateway.

**Access Name.** The Access Name is a set of parameter values defined at the gateway and given a unique name. Parameters that can be defined include Gateway LU, Application LU, Logon mode and User data. When you specify an Access Name, the predefined values for these parameters are used.

## Advanced level parameters

If you choose Advanced level, an expanded Configure 3270 Sessions dialog box, shown in Figure 4-1, is displayed.

4 IRMA WorkStation for Windows Product Update

Configure 3270 Sessions

Session ID

Short Name: E

Long Name:

Description:

Connection: DECSNAGW

Maximum Structured Field Size: 8 KB (1-32)

Gateway:

Access Name:

Gateway LU

☒ PU

Session Address [1-255]

☐ LU

Gateway LU Security

☒ None ☐ Prompt when activated

☐ Passive ☒ Active

Application LU:

Logon mode:

User data:

Device Type

☒ Display ☐ Printer

Maximum Model Type

☒ 2 ☐ 3 ☐ 4 ☐ 5

OK Cancel Help

Figure 4-1. Configure 3270 Sessions dialog box for Digital SNA Gateway connections

Depending on the configuration, you are required to enter a minimum set of responses. Click Help or refer to the user's guide for information about the parameters that are not specific to the Digital SNA Gateway. Click Help or read the following paragraphs for information on the Digital-specific parameters on this dialog box. For more information, see your Digital SNA Gateway administrator.

**Gateway.** This is the name of the DECnet node associated with the Digital SNA Gateway. This parameter is required.

**Access Name.** The Access Name is a set of parameter values defined at the gateway and given a unique name. Parameters that can be defined include Gateway LU, Application LU, Logon mode and User data. When you specify an Access Name, the predefined values for these parameters are used. Access Name is required if PU and Session Address or LU (see the following paragraphs) are not specified.

**Gateway LU.** The radio buttons and edit boxes in this group are used to specify the information needed to obtain a reserved LU. If you have already specified an Access Name, you can use this group to further define which gateway LU will be requested. (Parameter values that you specify override those defined in Access Name.) If an Access Name is not specified, specify the gateway LU in one of the following ways, depending on the Digital gateway:

**PU** If the PU radio button is selected, enter the PU name defined at the gateway. This will typically be SNA-0. This field is required if Access Name is not specified.

**Session Address** Enter a decimal number between 1 and 255 to specify the desired gateway session address. This field is required only if Access Name is not specified. However, it may optionally be specified in addition to Access Name to request a specific LU from a list defined by a particular Access Name.

**LU** This field is used by certain Digital SNA Gateways to specify the gateway LU. Enter the network name of the gateway LU to select. (If you need to use this field, see your gateway administrator for more information.) This field is required if the LU radio button is selected and Access Name is not specified.

**Gateway LU Security.** If the gateway LU you are requesting has been configured to require a password, select the "Prompt when activated" radio button. This causes the emulator to prompt for an LU password when the terminal session is connected.

**Passive/Active.** Select the Active radio button if you want to configure an active connection (using init-self).

If you select Passive, the emulator will be at the VTAM logon screen when the terminal session is connected. If you select Active, the emulator will automatically be in session with the IBM application of your choice when the terminal session is connected.

For an active connection, you can enter the following additional parameters:

<b>Application LU</b>	This is the IBM host application's ID. A typical entry is VM. Your gateway administrator can tell you what name to use for any IBM application. This parameter is required if the Active radio button is selected and Access Name is blank.
<b>Logon mode</b>	This field is used to specify a logon mode different from the default setting.
<b>User data</b>	This field is optional. Your IBM application administrator can tell you what to enter for this value if it is needed.

## ► Viewing session status

You can view the current status of all sessions by selecting About from the DECSNACE icon.

To see the access name instead of the gateway name, hold down the Shift key when you select About.

## ► Configuring the gateway connection time-out

You can set the time that DECnet waits for a gateway to respond through the PATHWORKS programs, NCP.EXE and NCPSET.EXE.

To show a complete list of parameters, enter the following command from the NCP command prompt:

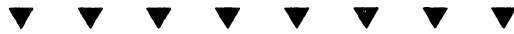
### SHOW EXECUTOR CHARACTERISTICS

To change the default connection time-out value (60 seconds), enter the following:

### SET EXECUTOR OUTGOING TIMER *n*

In this command, *n* is the value, in seconds, that you want to establish for the default connection time-out.

Refer to your PATHWORKS documentation for more information.



## **Connecting to an SNA Server for Windows NT**

- **General information**
- **Installation instructions**
- **Using the Customizer application**
- **Viewing error and log files**



## ► General information

Before you continue reading this chapter, note the following:

- If you choose to set up IRMA WorkStation as a client to SNA Server for Windows NT, you can use only SNA Server for Windows NT to connect to host or peer computers. You cannot use another gateway at the same time.
- IRMALINK file transfer is not supported when you use IRMA WorkStation to connect to SNA Server for Windows NT.

## ► Installation instructions

This section explains how to connect an IRMA WorkStation PC to an SNA Server for Windows NT gateway.

### Understanding the installation process

Installing the IRMA WorkStation PC as a client to SNA Server for Windows NT is a two-part process:

- Prepare the server PC. This step must be performed first, usually by the system administrator, and it involves installing IRMA WorkStation on the server PC. Once this server PC is ready, the IRMA WorkStation PC can be set up as a client.
- Install IRMA WorkStation on the IRMA WorkStation PC. This can be done by the system administrator or the PC user. The IRMA WorkStation PC can be set up as a client to SNA Server for Windows NT either by downloading the software from the server PC, or by loading the distribution diskettes onto the IRMA WorkStation PC. Both methods are described in this chapter.

### Installation checklist

Before you begin the installation, make sure you have the following information from your system administrator:

- Where is the SNA Server for Windows NT directory? This must be available at installation time.
- How many SNA Server for Windows NT nodes are required?
- What is the name of the SNA Server for Windows NT backup node, if any?

- Has SNA Server for Windows NT been installed and configured on an appropriate PC? If not, make sure SNA Server for Windows NT has been installed and configured.
- Do the clients that need to be connected to SNA Server for Windows NT have read access privileges for the SNA Server for Windows NT \SNASERV directory? If not, make sure these clients have these privileges.

## Getting the server PC ready

As a system administrator, the first thing you need to do is install IRMA WorkStation on the server PC.

**NOTE:** If you're installing other connections, turn to the user's guide and follow the appropriate instructions in Chapter 2, "Installing and Configuring the Software," or refer to the appropriate chapter of this Product Update.

Follow these steps:

- 1 Access the drive and directory where your SNA Server for Windows NT client support software is installed. Type the following:

**NET USE** *drive:\servername\CLIENTS*

**NOTE:** The IWW software can only be installed at an SNA Server for Windows NT server that has the client support software installed. It is necessary for the IWW installation code to decompress files from the WIN3X directory for successful installation to occur.

- 2 Insert the diskette labeled IRMA WorkStation for Windows Disk 1 in any available disk drive on your server PC.
- 3 Start Windows.
- 4 Choose Run from the Windows Program Manager File pull-down.
- 5 In the Command Line edit box, enter the diskette drive and the program name as follows:

**drive:\SETUP**

The Language Selection dialog box is displayed.

- 6 Specify the language (character set) you want to use and choose OK. The Setup dialog box is displayed. After the Setup program is loaded, the IRMA WorkStation for Windows introductory screens are displayed.



**NOTE:** Before continuing with the installation process, choose the Read This push button to display the Read This First file, which contains last-minute instructions or changes to IRMA WorkStation.

- 7 At the Welcome to IRMA WorkStation for Windows dialog box, choose the Install to File Server for Shared Access option.
- 8 Follow the instructions on the screen to install the client files on the server PC.

You can now perform the rest of the installation process. Continue with the next section, "Installing IRMA WorkStation on the IRMA WorkStation PC."

## Installing IRMA WorkStation on the IRMA WorkStation PC

You are now ready to install IRMA WorkStation on the IRMA WorkStation PC. This is the second part of the installation process.

You can use one of the following methods:

- Install the required software by downloading it from the server PC. Use this method if you do not have access to the IRMA WorkStation distribution diskettes or if, based on the information in the following paragraph, you decide that this method best suits your requirements.

The advantage of this method is that it saves local disk space on the IRMA WorkStation PC. The disadvantage is that it could take longer to install the software if the network where IRMA WorkStation is installed is slower than the floppy drive. The network may be slower due to any reason, for example, the clients may be connected to the server PC on a LAN by a slow communications medium such as a dial-up line.

- Install IRMA WorkStation by loading the IRMA WorkStation distribution diskettes. You can use this method only if you have access to the IRMA WorkStation distribution diskettes.

The advantage of this method is speed (provided the network where IRMA WorkStation is installed is slower than the floppy drive). The disadvantage is that this method uses more local disk space on the IRMA WorkStation PC.

Both methods are described in the following paragraphs.

## Installing the required software from the server PC

Installing the required software from the server PC is the method used most often and does not involve the use of IRMA WorkStation distribution diskettes to install IRMA WorkStation. You run the SETUPWIN program to access IRMA WorkStation from the server PC.

**NOTE:** You will need the information from the installation checklist you have prepared as you complete these steps.

Follow these steps:

- 1 Start Windows on your IRMA WorkStation PC.
- 2 Choose Run from the Windows Program Manager File pull-down.

**NOTE:** The next step is crucial to the installation. Make sure you perform this step to access the SETUPWIN program from the server PC disk drive.

- 3 In the Command Line edit box, enter the server PC disk drive and the program name as follows:

*drive:\SETUPWIN*

During the installation, you need to choose from the following options:

- Copy all of the IRMA WorkStation files from the server PC to your IRMA WorkStation PC (executables included). This method requires more local disk space but the executables load faster. This method is referred to as a client-based installation.
  - Leave all the IRMA WorkStation files on the server PC, except for those placed in a private directory on your IRMA WorkStation PC. This method saves local disk space but the executables take longer to load. This method is referred to as a server-based installation.
- 4 Follow the instructions on the screen to continue the installation process.
  - 5 Reboot the IRMA WorkStation PC after IRMA WorkStation is installed.

## Installing IRMA WorkStation from the IRMA WorkStation distribution diskettes

This method is used less frequently because it requires you to get a set of IRMA WorkStation distribution diskettes, which you may or may not have access to. As mentioned earlier, the advantage of this method may be speed, if the network where IRMA WorkStation is installed is slower than the floppy drive; however, the disadvantage is that more local disk space is used.

**NOTE:** You will need the information from the installation checklist you have prepared as you complete these steps.

Follow these steps:

- 1 Insert the diskette labeled IRMA WorkStation for Windows Disk 1 in any available disk drive on your IRMA WorkStation PC.
- 2 Start Windows.
- 3 Choose Run from the Windows Program Manager File pull-down.
- 4 In the Command Line edit box, enter the diskette drive and the program name as follows:

*drive:\SETUP*

The Language Selection dialog box is displayed.

- 5 Specify the language (character set) you want to use and choose OK. The Setup dialog box is displayed. After the Setup program is loaded, the IRMA WorkStation for Windows introductory screens are displayed.

**NOTE:** Before continuing with the installation process, choose the Read This push button to display the Read This First file, which contains last-minute instructions or changes to IRMA WorkStation.

- 6 At the Welcome to IRMA WorkStation for Windows dialog box, select the Install Personal WorkStation option.
- 7 Choose SNA Server for Windows NT as your connection, and then choose an appropriate destination path. Follow the instructions on your screen to install the client files on your IRMA WorkStation PC.
- 8 Reboot your IRMA WorkStation PC after IRMA WorkStation is installed.

## Do you need to customize your setup?

The default SNA Server for Windows NT settings generally work for most installations. However, if you think you want to change some of the settings, continue with the following sections, which describe the Customizer application.

## ► Using the Customizer application

The Customizer application, which is available if you are connecting to SNA Server for Windows NT, lets you set up customized configurations that meet your particular communications needs. This section covers the following topics:

- Introducing the Customizer
- Information you need before you begin
- Starting the Customizer
- Customizing client features
- Saving style files
- Exiting the Customizer

This section provides brief steps for performing tasks. For a more complete description of dialog boxes and their options, use the Customizer on-line help.

### Introducing the Customizer

Once you have set up your IRMA WorkStation PC as a client to SNA Server for Windows NT, you can communicate with the host using the default configuration. Optionally, you can modify the configuration using the Customizer application. In most cases, the default settings are fine. However, you may need to modify the defaults if, for example, you want to run a HLLAPI program that has a unique Session ID and Long Name.

The Customizer lets you change the configuration settings. The settings are saved in files called style files (with an extension of .CCF), which are used by IRMA WorkStation when communicating with SNA Server for Windows NT. You can use the default settings as a base to customize the following features:

- Keyboard type
- Host character set
- Keyboard type-ahead feature
- 3270 emulation session parameters

Note that the settings you specify can affect all of your 3270 sessions. When you have set up your customized configuration, you can save it and specify a style file name if you want.

**NOTE:** When you save your style file, select Make Default on the File pull-down if you want the file that is opened to be your default style file. The Make Default Style File dialog box is displayed, allowing you to specify the directory and file name of your default style file. If you do this, the default style file is automatically opened by the Customizer application when you run the application again.

The sections that follow provide guidelines for customizing client features and saving style files. The next section explains what information you need to gather before you begin.

## Information you need before you begin

Most of the communications parameters that support client activity are configured at the SNA Server for Windows NT PC. There are some, however, that you can configure at your PC to meet your individual requirements.

Before you start the Customizer, find out the following information from your system administrator:

- For 3270 sessions:
  - The session ID, if a HLLAPI application requires a specific session ID
  - The session long name, if a HLLAPI application requires a specific long name
  - The optimum structured field size for transferring files
- For host language support:
  - CECF translation requirements
  - The host character set
- Your keyboard type

## Starting the Customizer

To start the Customizer, choose the Customizer icon from the group box. The Customizer dialog box is displayed.

The action bar pull-downs are described in Table 5-1.

**Table 5-1. Customizer pull-downs**

<b>Pull-down</b>	<b>Explanation</b>
File	Lets you open, create, and save style files (client customizer files), and exit the Customizer.
Customize	Provides options to configure 3270 sessions, choose language support, select a keyboard, and initiate keyboard type ahead.
Help	Provides on-line assistance. For more information, see the user's guide.

In the following sections, you will find guidelines for customizing client features.

## **Customizing client features**

This section explains how to customize the client for your communications environment. The following tasks are described:

- Configuring 3270 sessions
- Choosing a host character set
- Selecting a keyboard
- Using the keyboard type-ahead feature

### **Configuring 3270 sessions**

You can configure up to 10 sessions. However, you can activate only a maximum of 5 sessions at one time. The following paragraphs explain how to define and clear session parameters.

#### **Defining session parameters**

To define session parameters, follow these steps:

- 1 Choose Sessions from the Customize pull-down. The Sessions dialog box is displayed.
- 2 Choose a session from the list box, and then choose Configure. The Configure Display Session dialog box is displayed.
- 3 Specify the session ID, session long name, description, and maximum structured field size in the Configure Display Session dialog box, and then choose OK.
- 4 Repeat steps 2 and 3 until you have configured all of the sessions.
- 5 Choose Done to establish the session parameters.

**NOTE:** If you have not yet specified a style file, you have to select the New option from the File menu to initialize the parameters.

### Clearing session parameters

Clear session parameters if you do not want them to show up in the list. To clear session parameters or to redefine a session, follow these steps:

- 1 Choose Sessions from the Customize pull-down. The Sessions dialog box is displayed.
- 2 Choose the session you want to redefine.
- 3 Choose Undefine. The session parameters are cleared.
- 4 If you want to redefine the session, follow the steps for defining session parameters in the preceding section.

### Choosing a host character set

The client supports various host character sets. To choose the character set used by your host computer, follow these steps:

- 1 Choose Language Support from the Customize pull-down. The Language Support dialog box is displayed.
- 2 Specify if you want CECP character-set support.
- 3 Choose the character set used by your host.
- 4 Choose OK to confirm your selections.

Note that not all character sets are supported by CECP. For information on host character sets, see the user's guide.

### Selecting a keyboard

If you need to use a different keyboard from the default provided with the software, you can specify a new keyboard. Each keyboard has its own set of characteristics, and these characteristics are defined in profiles that are unique for each keyboard.

You can specify three separate keyboard profiles to use at the client PC—one to use under normal circumstances, one to use as an alternate, and one to use as the QuickPad.

**NOTE:** You can specify a normal keyboard profile without specifying QuickPad.

## International keyboards

If you are an international user, your keyboard profile names have the following format:

*XXYN/V.KBD*

The following paragraphs explain the format:

- XX*      This is the country code; for example, UK.
- Y*      This is the Country Extended Code Page (CECP) indicator. There are two possible values:
- C*      CECP character set
- N*      Non-CECP character set
- NNV*    This is the number of keys on the keyboard; for example, 102.
- .KBD*    This is the file name extension.

Keyboard profiles based on a CECP character set usually have more characters mapped on the keyboard than do those based on non-CECP character sets. You can use the Keyboard Editor's Key List Editor feature to map any CECP characters you want on your keyboard profile.

For non-CECP character sets, only the existing characters on the non-CECP keyboard profile are valid. For more information about the Key List Editor, see Chapter 7, "Using the Keyboard Editor," in the user's guide.

## Choosing a keyboard profile

To choose your keyboard profiles, follow these steps:

- 1 Choose Keyboard Profile Selection from the Customize pull-down. The Keyboard Profile Selection dialog box is displayed.
- 2 Specify the keyboards as follows:
  - To identify the keyboard profile you will use with the 3270 terminal emulator, choose Normal from the Select Profile Type radio group. Then specify the keyboard file name and path in the Profile box, and choose Select. The name you specify appears beside the Normal radio button.
  - To identify the QuickPad, choose QuickPad from the Select Profile Type radio group. Then specify the file name and path in the Profile box, and choose Select. The name you specify appears beside the QuickPad radio button.



- 3 Choose OK to confirm your selections.

**NOTE:** The normal keyboard file names have a .KBD extension. QuickPad file names have a .QBD extension.

### Deleting a keyboard profile

To delete a keyboard profile, choose the radio button for the keyboard you want to remove and choose Clear from the Profile box. The keyboard profile is deleted.

### Using the keyboard type-ahead feature

The keyboard type-ahead feature allows you to enter up to 15 keystrokes in advance and store them in a buffer. This is useful when a Do Not Enter status-line message appears; you can continue typing until the buffer is full.

To initiate type ahead, choose Keyboard Type Ahead from the Customize pull-down. This option acts as a toggle to activate and deactivate the type-ahead feature. When you want to turn off keyboard type ahead, choose the option again. Type ahead is deactivated.

## Saving style files

When you have finished customizing the client features, you must save your changes to a client style file. Client style files have a .CCF extension. The Customizer ensures that a .CCF extension is used.

The following paragraphs explain how to save new and existing style files, and how to save existing style files under different names.

### Saving a new style file

To save a new style file, complete the following steps:

- 1 Choose Save As from the File pull-down. The Save Style File dialog box is displayed.
- 2 Specify the file name.

It is best if you enter the style file name without directory information. The style file will automatically be placed in an appropriate directory, and the title line will display the location.

However, if you set up a private path through the Setup program, the private path is shown as the default directory. To ensure that the applications find the style file, save the file to this directory, to the DCAWIN directory of the PC where the client files are installed, or to the directory called \SNASERV\COMCFG on the SNA Server for

Windows NT PC. If your style file is not in one of these locations, the applications cannot find it.

**NOTE:** When you save your style file, select Make Default on the File pull-down if you want the file that is opened to be your default style file. The Make Default Style File dialog box is displayed, allowing you to specify the directory and file name of your default style file. If you do this, the default style file is automatically opened by the Customizer application when you run the application again.

### 3 Choose Save to save the file.

Your new configuration is saved with a .CCF extension in the specified file, which remains open. You can continue to record parameters in this file. The next time you save it, follow the instructions for saving an existing style file.

## Saving an existing style file

If you want to save a style file that you have saved before, choose Save from the File pull-down. The system saves your file using the path and file name of the currently opened file.



**CAUTION:** You will lose the previous settings unless you save the changes under a new name using Save As. See the following section for instructions.

## Saving an existing style file under a new name

If you are working with an existing style file, you can use Save As from the File pull-down to save the current file under a different name. When you have finished the Save As operation, the file you initially opened is unchanged. The new file reflects the changes you made to the original file.

**NOTE:** When you save your style file, select Make Default on the File pull-down if you want the file that is opened to be your default style file. The Make Default Style File dialog box is displayed, allowing you to specify the directory and file name of your default style file. If you do this, the default style file is automatically opened by the Customizer application when you run the application again.

To save an existing style file under a new name, complete the following steps:

- 1 Choose Save As from the File pull-down. The Save Style File dialog box is displayed.
- 2 Specify the file name and directory path.

It is best if you enter the style file name without directory information. The style file will automatically be placed in an appropriate directory, and the title line will display the location. The Customizer replaces all style file extensions with a .CCF extension.

- 3 Choose Save to save the file. Your file is saved with a .CCF extension.

## Exiting the Customizer

When you have completed the client configuration, choose Exit from the File pull-down. If you have made changes to the current configuration that have not been saved, you are prompted to save them.

## ► Viewing error and log files

To view error and log files, run the Event Viewer at the server PC. See your SNA Server for Windows NT documentation for information.





## **Connecting to the ATLANTIS SNA Gateway**

- **About the ATLANTIS SNA Gateway**
- **Prerequisites for connectivity**
- **Configuring for 3270 emulation**



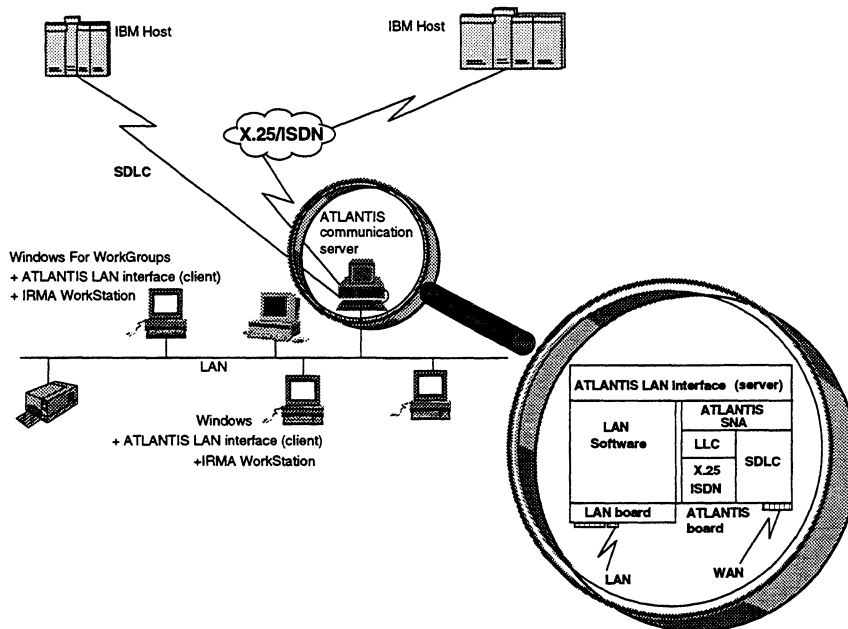
## ► About the ATLANTIS SNA Gateway

The ATLANTIS SNA Gateway allows PCs to access an IBM host using SDLC, X.25 or ISDN connections and operates in a LAN or stand-alone configuration.

In a LAN configuration, it is the ATLANTIS communications server that enables workstations using IRMA WorkStation to connect to IBM hosts across X.25, ISDN or SDLC links.

In a stand-alone configuration, it is the ATLANTIS base product and its telecommunications adapter that give the stations the X.25, X.32, ISDN or SDLC access needed for the operation of IRMA WorkStation.

The following figures illustrate the different elements that are involved depending on whether you are working across a network or using a stand-alone workstation.

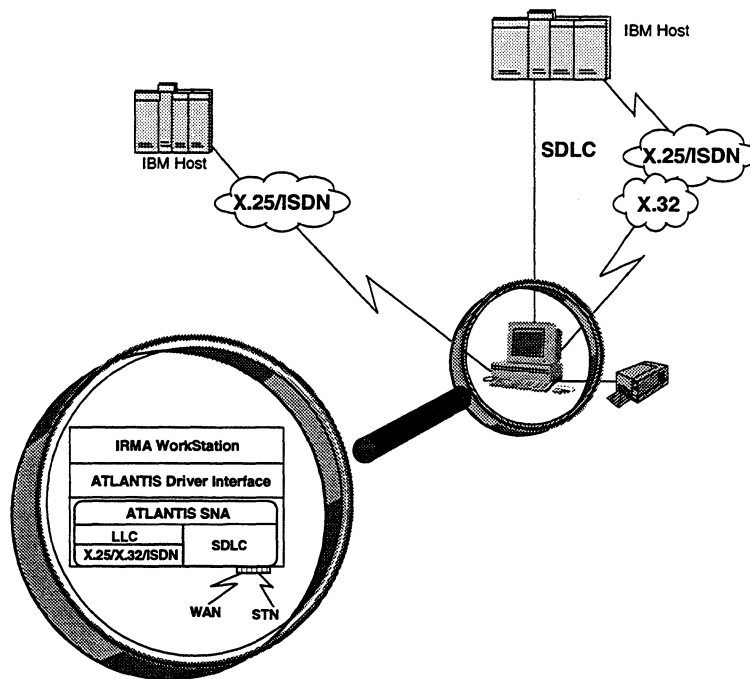


**Figure 6-1. ATLANTIS SNA Gateway in a LAN**

In the configuration shown in Figure 6-1, the communications server is a microcomputer with the ATLANTIS GWAY SERVER - DOS, GWAY SERVER - OS/2, or GWAY SERVER - UNIX product installed and configured for IBM connections across an X.25, ISDN or SDLC link.

The workstations are microcomputers running Windows 3.1 or Windows for WorkGroups with the ATLANTIS LAN interface and the IRMA WorkStation application installed.

Figure 6-2 illustrates the ATLANTIS SNA Gateway in a stand-alone configuration.



**Figure 6-2. ATLANTIS SNA Gateway in a stand-alone configuration**

The workstation is a microcomputer running Windows 3.1 with the ATLANTIS CELENIS OPEN-X, CELENIS OPEN-ISDN, or MELODY OPEN-X.32 product and the IRMA WorkStation application installed.

Whatever your type of configuration, communications are possible across public or private X.25 networks directly, across the Switched Telephone Network, or over an ISDN or SDLC link.



## ► Prerequisites for connectivity

Before you connect to an ATLANTIS SNA Gateway, make sure you meet the requirements described in the following sections.

### **ATLANTIS communications server and workstations**

The ATLANTIS communications server is a PC-compatible microcomputer, equipped the following:

- A LAN adapter for connection to the LAN (for installation information, refer to the documentation supplied with the adapter)
- An ATLANTIS adapter for X.25, ISDN and SDLC access (for information on how to install this adapter, refer to the documentation provided with your ATLANTIS communications server)

The server software used can be any of the following:

- GWAY SERVER - DOS running on a NETBIOS-compatible LAN
- GWAY SERVER - OS/2 running on a NETBIOS-compatible LAN
- GWAY SERVER - UNIX running on a TCP/IP LAN

ATLANTIS workstations are provided with the DOS/Windows LAN Interface (option supplied with GWAY servers).

### **ATLANTIS stand-alone workstation**

The ATLANTIS stand-alone workstation is a PC-compatible microcomputer, equipped with the following:

- An ATLANTIS adapter for X.25, ISDN and SDLC access (for information on how to install this adapter, refer to the documentation provided with your ATLANTIS communications server)
- CELENIS OPEN-X, MELODY OPEN-X.32, or CELENIS OPEN-RNIS (ISDN)

## ► Configuring for 3270 emulation

When you specify the ATLANTIS SNA Gateway as your connection type during installation, the ATLANTIS SNA connection icon is available in the 3270 Configurator main dialog box so that you can configure IRMA WorkStation to communicate with this gateway.

### Setting up the ATLANTIS SNA Connection dialog box

When you click the ATLANTIS SNA Gateway connection icon in the 3270 Configurator main window, the ATLANTIS SNA Connection dialog box is displayed. There is only one parameter on this dialog box.

**Number of receive buffers.** Enter the number of queued receive buffers waiting for incoming packets. The default is 6. You may need to increase this value if you are running a large number of background Windows applications.

### Setting up the 3270 Sessions dialog box

When you click the 3270 Sessions button, the Configure 3270 Sessions dialog box is displayed (the Configure 3270 Sessions dialog box is explained on page 3-19 of the user's guide). Click ATLANTIS Options and the Configure 3270 Sessions for ATLANTIS SNA dialog box, shown in Figure 6-3-, is displayed.

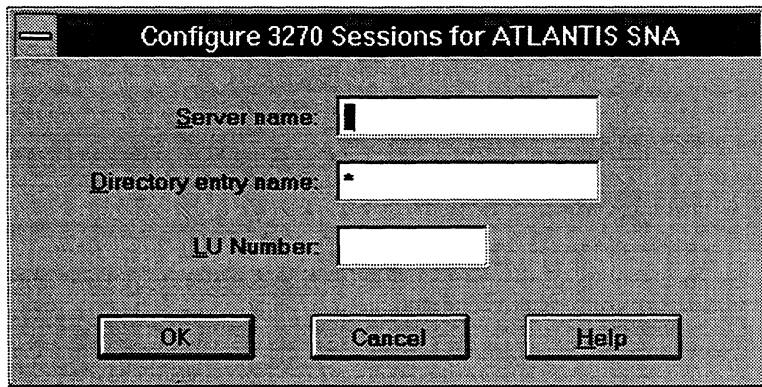


Figure 6-3. Configure 3270 Sessions for ATLANTIS SNA dialog box

The following paragraphs explain the parameters on the dialog box.

**Server name.** For a gateway connection, enter the communications server name to be used for this session. The server name can consist of up to 16 alphanumeric uppercase characters. Or you can type an asterisk (\*), which causes the emulator to attempt to attach to the default server.

**NOTE:** The default server name is configured in the ATLANTIS SNA system configuration. If you enter a server name, it must match the server name configured at the gateway server.

This item is grayed and is not applicable for a stand-alone connection (a stand-alone connection requires a special adapter that must be installed on the PC).

**Directory entry name.** Enter the name of a directory entry that will be configured and loaded with ATLANTIS SNA. Each directory entry describes a PU connection profile to the host. On the gateway server, you can configure up to 20 directory entries. Only 5 directory entries (5 PUs) can be activated at one time.

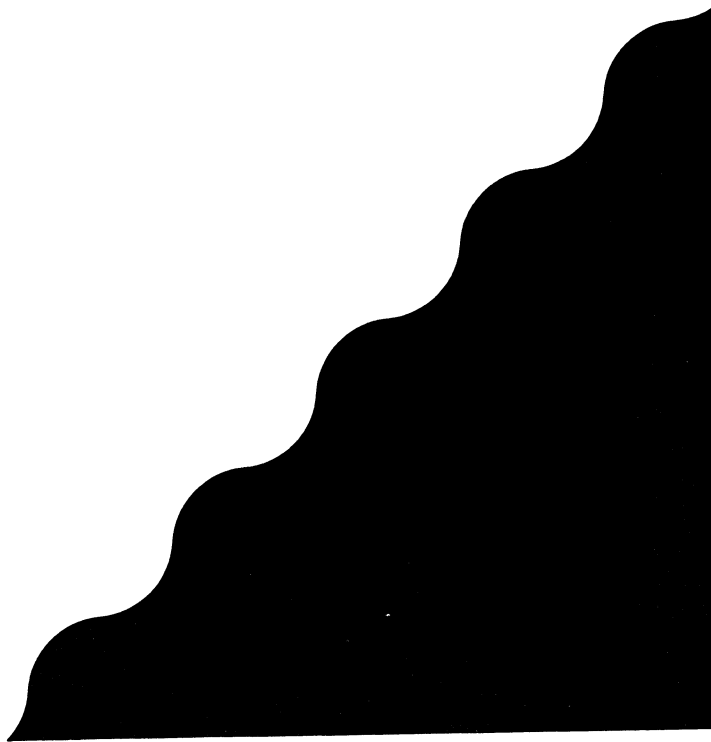
The directory entry name can consist of up to 16 alphanumeric uppercase characters.

**LU Number.** Enter the host LU number (1 to 253) for the session. This number must be configured in the chosen directory entry of ATLANTIS SNA.





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